

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-5 (Canceled)

6-10 (Withdrawn)

11-12 (Canceled)

13-14 (Withdrawn)

15-23 (Canceled)

25-37 (Withdrawn)

38. (currently amended) A soluble T cell receptor (TCR) having high affinity for a ligand exhibiting a dissociation constant for that ligand greater than about 10^7 M^{-1} , wherein said TCR is a mutant TCR carrying one or more mutations in a CDR.

39. (previously amended) The soluble T cell receptor of claim 38 wherein the TCR exhibits a dissociation constant for the ligand between about 10^7 to 10^{10} M^{-1} .

40. (currently amended) The soluble TCR of claim 38 wherein the ligand is a peptide/HMCMHC ligand.

41. (original) The soluble TCR of claim 38 wherein the ligand is a superantigen.

42. (original) The soluble TCR of claim 38 which is a mutant TCR carrying one or more mutations in a CDR.

43. (original) The soluble TCR of claim 42 wherein the one or more mutations are in CDR3 α or CDR3 β .

44. (original) A soluble mutant T cell receptor (TCR) having high affinity for a ligand and having one or more mutations in a CDR.
45. (original) The soluble TCR of claim 44 wherein the one or more mutations are in CDR3 α or CDR3 β .

D₇ 46. ¹⁷ (currently amended) The soluble TCR of claim ~~44~~⁷ wherein the ligand is a peptide/MHCHMC ligand.

47. (original) The soluble TCR of claim 44 wherein the ligand is a superantigen.

D₈ 48. ¹¹ (currently amended) A An isolated T cell expressing on its surface high affinity TCR's exhibiting a dissociation constant greater than 10^7 M^{-1} for a selected ligand, wherein said TCR is a mutant TCR carrying one or more mutations in a CDR.

49. (previously amended) The T cell of claim 48 wherein the TCR exhibits a dissociation constant between about 10^7 to 10^{10} M^{-1} for said ligand.

50. (original) The T cell of claim 48 wherein the ligand is a peptide/MHC ligand.

51. (original) The T cell of claim 48 wherein the ligand is a superantigen.

52. (original) The T cell of claim 48 wherein the high affinity TCR is a mutant carrying one or more mutations in a CDR.

53. (original) The T cell of claim 48 wherein the high affinity TCR is a mutant carrying one or more mutations in CDR3 α or CDR3 β .

D₉ 54. ¹⁷ (currently amended) A- An isolated T cell expressing on its surface a high affinity TCR carrying one or more mutations in a CDR.

55. (original) The T cell of claim 54 wherein the high affinity TCR is a mutant carrying one or more mutations in CDR3 α or CDR3 β .

56. (original) The T cell of claim 54 wherein the ligand is a peptide/MHC ligand.

57. (original) The T cell of claim 54 wherein the ligand is a superantigen.

58-103 (Withdrawn)

104. (previously added) A soluble mutant T cell receptor (TCR) having an high affinity for a ligand and having one or more mutations in a CDR where the TCR exhibits a dissociation constant for the ligand from about 10^7 to about $10^{10}M^{-1}$.

105. (previously added) The soluble TCR of claim 104 wherein the one or more mutations are in CDR3 α or CDR3 β .

106. (previously added) The soluble TCR of claim 104 wherein the ligand is a peptide/HMC ligand.

9

Amendments to the Drawings:

The attached sheets of drawings include new Figures 10 through 13 on 4 pages.

Attachment: New Sheets

D